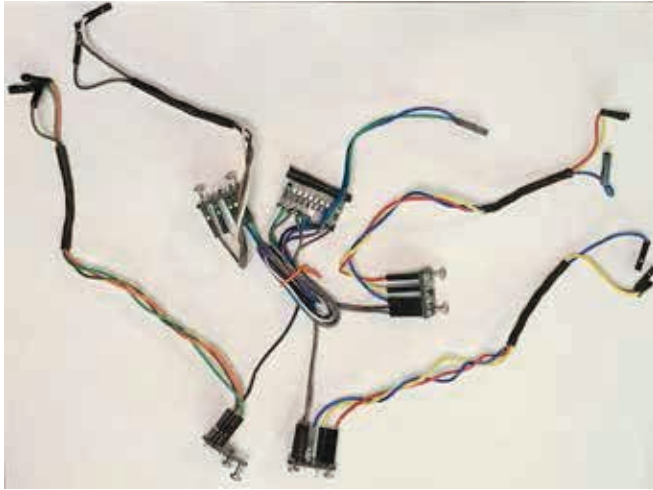


# SENSORS



## PARTS

- Adafruit VL52L0X Sensor	x	4
- VL53L0X Header	x	4
- Female/Male 7in Wire	x	22
- 20 Gauge Wire	x	1ft
- 1/2in x 7/64in screw	x	2

## ASSEMBLY

- Solder included Header on to VL53L0X with the Header facing the back side of the sensor (Header not shown here, male ends were soldered directly to Sensor(mistake))
- Connect 1 female end of each wire to the following pins on each sensor: VIN, GND, SHDN, SCL, SDA  
(Labeling the wires will help identify which are which to help for faster connecting)
- Strip the male ends off of the SDA and SCL wires from each VL53L0X . Do this for two additional unused wires.
- Solder the SDA loose ends and the end of one of the two remaining loose wires together. Cover with shrink tubing
- Solder the SCL loose ends and the end of the remaining loose wire together. Cover with shrink tubing  
(The last two steps are not shown in this picture. I used a 10 piece header, soldered groups of five pins together twice. Then I connected the four SDA females and one extra(to go to the pi. And repeated for the SCL wires.)
- Use shrink tubing to organize the remaining wires
- Screw each sensor on to the sensor holder  
(Be careful that the screws do not touch any

